

Title (en)
FLUID APPARATUS WITH ELECTRICALLY CONDUCTIVE VALVE MEMBER

Title (de)
FLUIDVORRICHTUNG MIT ELEKTRISCH LEITENDEM VENTILGLIED

Title (fr)
APPAREIL DE FLUIDE MUNI D'UN ÉLÉMENT DE SOUPAPE ÉLECTRIQUEMENT CONDUCTEUR

Publication
EP 3369981 B1 20210217 (EN)

Application
EP 18158765 A 20180227

Priority
JP 2017040396 A 20170303

Abstract (en)
[origin: EP3369981A1] Provided is a plug device (100) which includes: a body portion (110); and a valve element portion (120). A fluid flow passage (113) is formed in the body portion (110). The fluid flow passage (113) extends along an axis X1, and has a valve hole (115) at one end thereof. The valve element portion (120) is accommodated in the body portion (110) in an advancing and retracting manner along the axis X1. A proximal end portion (122) of the valve element portion (120) is made of a conductive fluororesin material containing a fluororesin material and carbon nanotubes dispersed in the fluororesin material. The proximal end portion (122) is conductive with a conductive member (140) maintained at a ground potential. A volume resistivity of the conductive fluororesin material falls within a range of larger than $1.0 \times 10^3 \text{ } \Omega \cdot \text{cm}$ and less than $1.0 \times 10^4 \text{ } \Omega \cdot \text{cm}$.

IPC 8 full level
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Cited by
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